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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,852	02/22/2006	Hiromi Yoshida	JFE-05-1840	9915
	7590 09/23/200 DLA PIPER LLP (US)	EXAMINER		
ONE LIBERTY	Y PLACE	YEE, DEBORAH		
PHILADELPH	r ST, SUITE 4900 IA, PA 19103		ART UNIT	PAPER NUMBER
			1793	
			NOTIFICATION DATE	DELIVERY MODE
			09/23/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

pto.phil@dlapiper.com

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/566,852	HIROMI YOSHIDA ET AL.		
Examiner	Art Unit		
Deborah Yee	1793		

	Deborah Yee	1793				
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress			
THE REPLY FILED <u>14 September 2009</u> FAILS TO PLACE THIS	S APPLICATION IN CONDITION F	OR ALLOWANCE.				
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Apper for Continued Examination (RCE) in compliance with 37 C periods:	replies: (1) an amendment, affidavit al (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request			
a) The period for reply expires <u>3</u> months from the mailing date	of the final rejection.					
b) The period for reply expires on: (1) the mailing date of this Arno event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(floor).	dvisory Action, or (2) the date set forth in ter than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE	date of the final rejection	n.			
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount of hortened statutory period for reply origin	of the fee. The appropria nally set in the final Office	ate extension fee e action; or (2) as			
2. The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the				
	t waisan to the data of filing a buist	وحالم ومعلم ومعلم ومعلم النبي				
3. The proposed amendment(s) filed after a final rejection, be (a) They raise new issues that would require further cor (b) They raise the issue of new matter (see NOTE below.	isideration and/or search (see NOT w);	E below);				
(c) They are not deemed to place the application in beti	er form for appeal by materially rec	ducing or simplifying t	ne issues for			
appeal; and/or (d) ☐ They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).	orresponding number of finally reje	ected claims.				
4. The amendments are not in compliance with 37 CFR 1.12	21 See attached Notice of Non-Cor	mpliant Amendment (PTOL-324)			
5. Applicant's reply has overcome the following rejection(s):		mphane / mioriamione (i	. 02 02 1/1			
6. Newly proposed or amended claim(s) would be all non-allowable claim(s).		imely filed amendmer	nt canceling the			
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prove The status of the claim(s) is (or will be) as follows:		l be entered and an e	kplanation of			
Claim(s) allowed: Claim(s) objected to:						
Claim(s) rejected:						
Claim(s) withdrawn from consideration:						
AFFIDAVIT OR OTHER EVIDENCE						
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 						
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appea	ıl and/or appellant fail:	s to provide a			
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after er	ntry is below or attach	ed.			
11. The request for reconsideration has been considered but See Continuation Sheet.	does NOT place the application in	condition for allowan	ce because:			
12. Note the attached Information <i>Disclosure Statement</i> (s). (PTO/SB/08) Paper No(s).						
13.						
	/Deborah Yee/ Primary Examiner Art Unit: 1793					

Continuation of 11. does NOT place the application in condition for allowance because:

Applicant's argument and Declaration filed September 14, 2009 are not persuasive to overcome the rejection of claims 11 to 29 over Japanese patent 2002-2694 ("JP-694").

It was argued that the steel of JP-941 contains 0.1 to 0.5% V whereas Applicant's steel is free of V. The present invention avoids V because it forms VC which severely increases the deformation resistance in subsequent hot rolling steps and a reduction ratio of 70% is unachievable. Although the r values in JP-941 are improved, the problem is that there is excessive presence of precipitated VC because the amount of C in the solid soution state is reduced. Thus tensile strength ("TS") is lowered along with the reduction of C in solid solution and in order for JP-941 to secure a TS at 440 MPa or more, it is necessary to add not only V but also Nb and Ti in large quantities.

In contrast, present invention uses Nb in small amounts to leave solid solution C present in the steel so that there is a small amount of NbC and no VC precipitated in the steel. This allows inventive steel to maintain excellent deep drawability as reflected in a r value of 1.2 or more while maintaining TS at 440 MPa or more. Moreover, elimination of V and controlling Nb allows for reduction ratios of 70% or even more during cold rolling because the deformation resistance due to the presence of VC in large amounts is eliminated.

It is the Examiner's position contrary to Applicant's argument, steel of JP-941 is able to achieve a cold rolling reduction of 70% despite the presence of VC, see paragraphs [0010] and [053]. In addition, JP-941 in claim 1 recites 0.01 to 0.5% V and Nb and/or Ti in a total amount of 0.001 to 0.3% which overlaps and suggest the amount of 0.01 to 0.3% Nb in Applicant's claims. Hence JP-941 does not appear to teach excessive amounts of V, Nb and/or Ti. compared to present invention. In regard to C in solid solution, it is not recited in claim and therefore not a patentable consideration.

and a high tensile strength of 440 MPa or more together with an r value of 1.2 or more, as a ...